

ISB ICT Scope & Sequence Overview 2009-10

	Phase 1	Phase 2	Phase 3
<p>Basic Operations & Concepts</p>	<p>2.1 The student will demonstrate knowledge of the nature and operation of technology systems.</p> <ul style="list-style-type: none"> • Identify the computer as a machine that helps people at school, work, and play. • Use technology to demonstrate the ability to perform a variety of tasks; among them turning on and off a computer, starting and closing programs, saving work, creating folders, using pull-down menus, closing windows, dragging objects, and responding to commands. <p>2.2 The student will demonstrate proficiency in the use of technology.</p> <ul style="list-style-type: none"> • Demonstrate the use of mouse, keyboard, printer, multimedia devices, and earphones. • Use multimedia resources such as interactive books and software with graphical interfaces. 	<p>5.1 The student will demonstrate knowledge of the nature and operation of technology systems.</p> <ul style="list-style-type: none"> • Discuss common uses of computers in their daily life and the advantages and disadvantages those uses provide. • Communicate about basic technology components with appropriate terminology. <p>5.2 The student will demonstrate proficiency in the use of technology.</p> <ul style="list-style-type: none"> • Use skills and procedures needed to operate various technologies such as scanners, digital cameras and hand-held computers. • Identify basic software applications such as word processing, databases, and spreadsheets. 	<p>7.1 The student will demonstrate knowledge of the nature and operation of technology systems.</p> <ul style="list-style-type: none"> • Describe how technology impacts learning. • Explore how software and hardware are developed to respond to the changing needs of technology. • Describe compatibility issues, between various types of technology. <p>7.2 The student will demonstrate proficiency in the use of technology.</p> <ul style="list-style-type: none"> • Understand that hardware and software have different operating systems that may affect their use. • Use self-help features such as online tutorials and manuals to learn to use hardware and software.
<p>Social & Ethical Issues</p>	<p>2.3 The student will practice responsible use of technology systems, information, and software.</p> <ul style="list-style-type: none"> • Know the school's rules for using computers. • Understand the importance of protecting personal information or passwords. • Understand the basic principles of the ownership of ideas. <p>2.4 The student will use technology responsibly.</p> <ul style="list-style-type: none"> • Demonstrate respect for the rights of others while using computers. • Understand the responsible use of equipment and resources. 	<p>5.3 The student will demonstrate knowledge of ethical, cultural, and societal issues related to technology.</p> <ul style="list-style-type: none"> • Identify how technology has changed society in areas such as communications, transportation, and the economy. • Discuss ethical behaviors when using information and technology. <p>5.4 The student will practice responsible use of technology systems, information, and software.</p> <ul style="list-style-type: none"> • Understand the need for the school division's acceptable use policy. • Discuss the rationale of fair use and copyright regulations. • Follow rules for personal safety when using the Internet. <p>5.5 The student will demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity.</p> <ul style="list-style-type: none"> • Work collaboratively when using technology. • Practice and communicate respect for people, equipment, and resources. 	<p>7.3 The student will demonstrate knowledge of ethical, cultural, and societal issues related to technology.</p> <ul style="list-style-type: none"> • Demonstrate knowledge of current changes in information technologies. • Explain the need for laws and policies to govern technology. • Explore career opportunities in technology related careers. <p>7.4 The student will practice responsible use of technology systems, information, and software.</p> <ul style="list-style-type: none"> • Demonstrate the correct use of fair use and copyright regulations. • Demonstrate compliance with the school's Acceptable Use Policy and other legal guidelines. <p>7.5 The student will demonstrate knowledge of technologies that support collaboration, personal pursuits, and productivity.</p> <ul style="list-style-type: none"> • Work collaboratively and/or independently when using technology. • Practice preventative maintenance of equipment, resources, and facilities. • Explore the potential of the Internet as a means

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		<ul style="list-style-type: none"> Understand how technology expands opportunities for learning. 	of personal learning and the respectful exchange of ideas and products.
Technology Research Tools	<p>2.5 The student will use technology to locate, evaluate, and collect information from a variety of sources.</p> <ul style="list-style-type: none"> Identify information in various formats. Identify available sources of information. 	<p>5.6 The student will use technology to locate, evaluate, and collect information from a variety of sources.</p> <ul style="list-style-type: none"> Collect information from a variety of sources. Evaluate the accuracy of electronic information sources. Enter data into databases and spreadsheets. 	<p>7.5 The student will use technology to locate, evaluate, and collect information from a variety of sources.</p> <ul style="list-style-type: none"> Use databases and spreadsheets to evaluate information. Use technology resources such as calculators and data collection probes for gathering information. Use Internet and other electronic resources to locate information in real time. <p>7.7 The student will evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.</p> <ul style="list-style-type: none"> Use search strategies to retrieve information. Evaluate the accuracy, relevance, and appropriateness of electronic information sources.
Problem-solving & Decision Making Tools	<p>2.6 The student will use technology resources for solving problems and making informed decisions.</p> <ul style="list-style-type: none"> Recognize that technology can be used to solve problems and make informed decisions. Identify and select technologies to address problems. 	<p>5.7 The student will use technology resources for solving problems and making informed decisions.</p> <ul style="list-style-type: none"> Determine when technology tools are appropriate to solve a problem and make a decision. Select resources to solve problems and make informed decisions. 	<p>7.8 The student will use technology resources for solving problems and making informed decisions.</p> <ul style="list-style-type: none"> Employ technology in the development of strategies for solving problems. Use a variety of technologies to identify and provide possible solutions to real-world problems. Use content-specific tools, software, and simulations such as environmental probes, graphic calculators, exploratory environments, and web tools. Participate in collaborative problem-solving activities. Select and use appropriate tools and technology resources to accomplish a variety of tasks.

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<p>Technology Communication Tools</p>	<p>2.7 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.</p> <ul style="list-style-type: none"> • Identify the best tool to communicate information. • Use technology tools for individual writing, communication, and publishing activities. <p>Demonstrate the ability to create, save, retrieve, and print document</p>	<p>5.8 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.</p> <ul style="list-style-type: none"> • Produce documents demonstrating the ability to edit, reformat, and integrate various software tools. • Use technology tools for individual and collaborative writing, communication, and publishing activities. • Use telecommunication tools to communicate and share information with others. 	<p>7.9 The student will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.</p> <ul style="list-style-type: none"> • Choose the appropriate tool, format, and style to communicate information. • Independently use technology tools to create and communicate for individual and/or collaborative projects. • Produce documents demonstrating the ability to edit, reformat, and integrate various software tools.
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